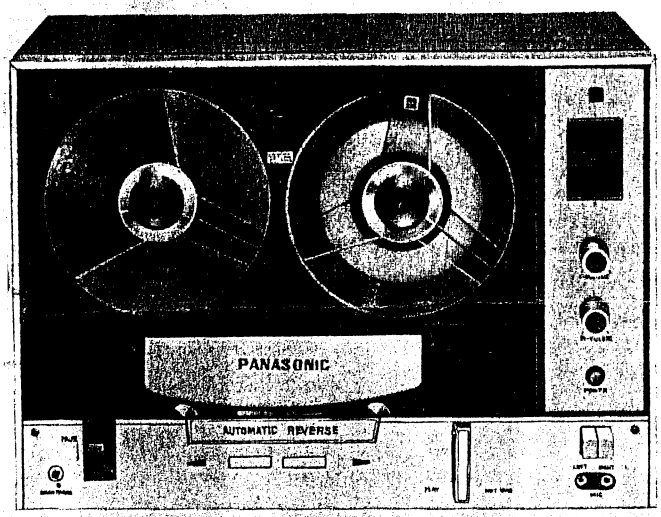
Service Manual

Panasonic
TAPE RECORDER
Panasonic

SOLID STATE DUAL CAPSTAN 4-TRACK AC STEREO TAPE DECK WITH CONTINUOUS AUTOMATIC REVERSE



This is the Service Manual of Model RS-790AD for PX.

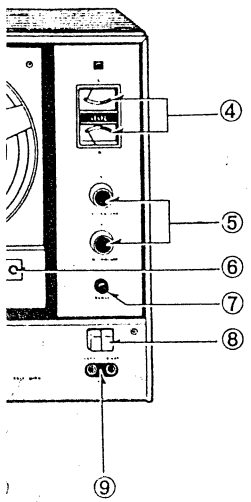
MODEL **RS-790AD**

SPECIFICATIONS

Power Source:	AC: 100~250 volts, 50/60 Hz
Power Consumption:	Approx. 45 W
Transistors:	2SB348(2) 2SB346(6) 2SB172(2) 2SB324(3) 2SA101CⓎ(2)
Diodes & Rectifiers:	OA70(2) KC2d22/a(1) FR1M(4)
Recording System:	AC bias 85 kHz
Erasing System:	AC erase
Track System:	4-track system
Tape Speeds:	3 speeds, 7-1/2, 3-3/4 and 1-7/8 ips
Rewind time:	Approx. 160 seconds for 7″ standard tape (1200 ft)
Fast Forward Time:	Approx. 160 seconds for 7″ standard tape (1200 ft)
Frequency Response:	25~21,000 Hz at 7-1/2 ips 25~15,000 Hz at 3-3/4 ips 25~ 9,000 Hz at 1-7/8 ips
Wow & Flutter:	Less than 0.09% WRMS at 7-1/2 ips Less than 0.18% WRMS at 3-3/4 ips Less than 0.22% WRMS at 1-7/8 ips
Inputs:	2 "MIC" input 20 KΩ 0.55 mV 2 "AUX" input 100 KΩ 0.1 V REC/PLAY
Outputs:	2 "LINE" output 3 KΩ 0.5 V "HEADPHONE" 8Ω 55 mV REC/PLAY
Dimensions:	19-3/4″(W) × 14-1/8″(H) × 8-1/2″(D)
Weight:	Approx. 32 lbs.

These specifications are subject to change in order to accommodate improvements in design.

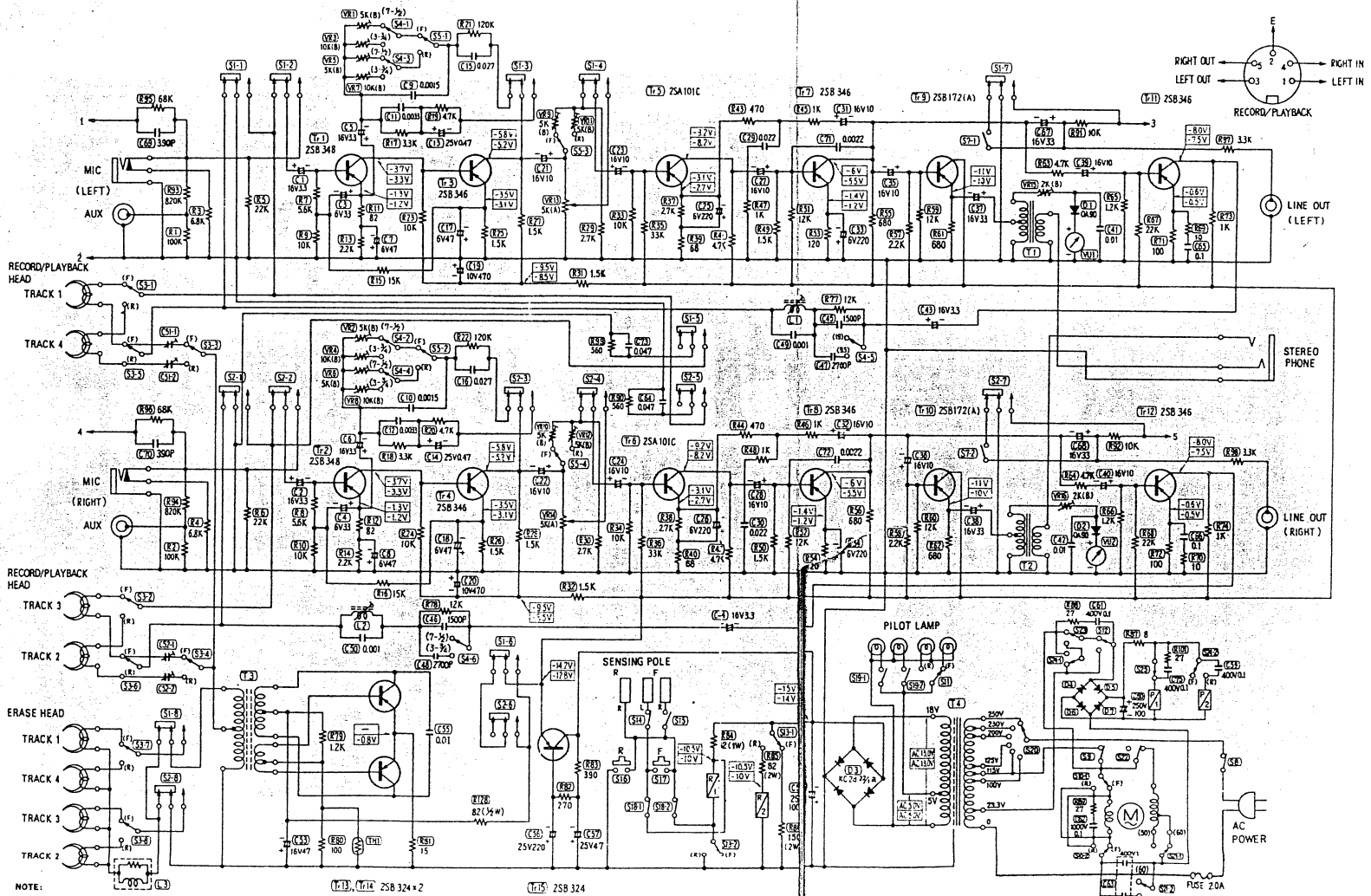
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
Tokyo Industrial Sales Office



utput jacks
cord
cket
ry input jacks
g post for automatic reverse

re roller (Left)
in (Left)
d/playback head for reverse
ion
nead for reverse operation
hifter
nead for forward operation
d/playback head for forward
ion
in (Right)
re roller (Right)
g post for automatic reverse
)
iatic shut-off tension arm

SCHEMATIC DIAGRAM MODEL RS-790AD



NOTE:

1. S1-1~S1-8, S2-1~S2-8 ... Record playback select switch
2. S3-1~S3-8 ... Forward reverse head select switch
3. S4-1~S4-6 ... Equalizer switch
4. S5-1~S5-2 ... Forward reverse equalizer select switch
5. S5-3~S5-4 ... Forward reverse gain select switch
6. S7-1~S7-2 ... Stop switch
7. S8 ...
8. S9 ...
9. S10-1~S10-2 ...
10. S11, S23, S24 ...
11. S12 ...
12. S13-1~S13-2 ...
13. S14 ...

Tr-13, Tr-14 2SB 324 x 2

Power ON OFF switch
Shut off switch
Forward reverse motor select switch
Pilot lamp switch
Plunger switch
Relay switch (coupled with Ry1)
Recording Automatic stop switch

Tr-15 2SB 324

14. S15 ... Reverse prevention switch
15. S16, S17 ... Hand operated forward reverse select switch
16. S18-1~S18-2 ... Fast wind prevention switch
17. S19-1~S19-2 ... Record indicator select switch (coupled with record mechanism)
18. S20 ... AC voltage select switch
19. S21-1~S21-2 ... Frequency select switch
20. S22 ... Motor off switch (OFF at stop)
21. Resistors are ohms (Ω), 1/4 watt unless specified otherwise
    K 1,000Ω, M 1,000,000Ω.
22. Capacitors are microfarad (μF) unless specified otherwise
    P Micro-microfarads
23. Values indicated in "( )" are DC voltages between the chassis and electrical parts.
24. The upper values should be measured during playback and the lower values during recording